Liberia - Liberia Energy LEC Training

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Overview

Identification

COUNTRY
Liberia

EVALUATION TITLE
Liberia Energy LEC Training

EVALUATION TYPE
Independent Performance Evaluation

ID NUMBER
DDI-MCC-LIB-IE-TRAINING-2020-01

Version

VERSION DESCRIPTION
Not applicable to this evaluation; no quantitative data to be shared

Overview

ABSTRACT
In 2015, the Millennium Challenge Corporation (MCC) partnered with the Government of Liberia (GoL) to help address the country's insufficient access to reliable and affordable electricity. Under MCC's compact with the GoL, the $202 million Energy Project aims to modernize Liberia's energy network, extend access to electricity, and improve the quality and reliability of the country's power system. MCC has contracted with Mathematica to to conduct impact and performance evaluations of four separate activities and investments. This report outlines the proposed evaluation design of the LEC Training Activity, which aims to improve the technical capacity of the energy sector workforce through improved training for LEC staff and technicians. The LEC Training Activity will apply a train-the-trainer model and will use the facilities available at LEC and the Mount Coffee Hydro Power Plant. LEC will identify employees who will be trained as trainers and will subsequently provide on-the-job training to other LEC staff. The activity also includes the procurement of tools and equipment for training and support for curriculum development. The on-the-job training will focus on technical skills for LEC's engineers and linesmen, and skills related to sales, utility operations, revenue mobilization, and inventory control. Training will also touch upon non-technical skills related to management, occupational health and safety, and customer service. Altogether, the LEC Training Activity is expected to yield a better prepared workforce, able to improve Liberia's electricity quality and reliability, better manage the LEC grid infrastructure, and make more grid connections to help meet Liberia's electricity demand.

Mathematica has proposed a performance evaluation in the form of a qualitative study to assess implementation and performance over time. Mathematica will draw on documentation, site visits, key informant interviews (KIIs), and focus group discussions (FGDs) to answer the evaluation questions.

EVALUATION METHODOLOGY
Other (Performance Evaluation)

UNITS OF ANALYSIS
other

TOPICS

Topic	Vocabulary	URI
Energy	MCC Sector	

KEYWORDS
Liberia, Energy, LEC, Training

Coverage

GEOGRAPHIC COVERAGE
The LEC Trainin Center Activity is being implemented at the LEC's Bushrod and Waterside facilities.

UNIVERSE
Not applicable

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Mathematica	

FUNDING

Name	Abbreviation	Role
Millennium Challenge Corporation	MCC	

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Millennium Challenge Corporation	MCC		Review of Metadata
Mathematica		Independent Evaluator	Review of Metadata

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2021-02-25

DDI DOCUMENT VERSION
Version 1 (Original 2021-2-25)

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MCC Compact and Program

COMPACT OR THRESHOLD
Liberia Compact

PROGRAM
MCC's compact with the Government of Liberia for the $202 million Liberia Energy Project includes four separate activities to address the challenges facing Liberia's power sector. This report focuses on the Liberia Electricity Corporation (LEC) Training Activity (Activity 4), which aims to improve the technical capacity of the energy sector workforce through improved training for LEC staff and technicians.

MCC SECTOR
Energy (Energy)

PROGRAM LOGIC
The logic model identifies six stages: the problem, the process, outputs, which lead to short-term outcomes, which lead to intermediate outcomes, which lead to long-term outcomes, which lead to the compact goal. The problem is that there is a lack of access to affordable and reliable energy in Liberia. In the process stage, the Training Activity will (1) build and equip the training center and (2) procure a training center program design consultant. The Training Activity has four outputs: 1) the outdoor training center is constructed and equipped, (2) training needs are assessed; a master and strategic plan, training system, and resources are developed, (3) training, mentorship, and oversight of the trainers is provided, and (4) training for non-technical, corporate and customer service center staff is conducted. In the short term, these outputs are

expected to lead to increased skills and capacity among the LEC workforce and improved utility performance. The intermediate outcomes in the program logic indicate that investments are expected to bolster LEC's grid management capacity, leading to improved facilities, improved electricity quality and reliability, increased access and connectivity among the population under the grid, and increased consumption of electricity among end users. In the long term, these outputs could in turn increase revenue and bolster LEC's financial sustainability.

PROGRAM PARTICIPANTS

LEC

Sampling

Study Population

Not applicable

Sampling Procedure

Not applicable

Deviations from Sample Design

Not applicable

Response Rate

Not applicable

Weighting

Not applicable

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2021-01-01	2021-04-30	Interim
2024-01-01	2024-04-30	Endline

Data Collection Notes

We plan to collect documentation and conduct site visits, KIIs, and FGDs.

Data Processing

No content available

Data Appraisal

Estimates of Sampling Error

Not applicable